

UTAH CONSTRUCTION PROGRAM
CHEVRON RESOURCES
MULTI-PLATE AND DETOUR ROAD

RECEIVED

NOV 02

DIVISION OF OIL
GAS & MINING

U Uintah Engineering

85 SOUTH 200 EAST
VERNAL, UTAH 84078
(801) 789-1017

BID PROPOSAL

IN

City Uintah County

Contractor

Bid Opening Date

Note: The Contractor is responsible for reading the contents of the specifications, special provisions, plans and drawings.

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NOTICE TO CONTRACTORS

Sealed proposals will be received by the Chevron Resources
at _____
until 2:00 o'clock p.m. _____, and at that time publicly
opened for construction of _____ in _____
City, Uintah County, the same being that section of Road
Route No. 191 from Sta. 10+00 to its terminus
at Sta. 29+00 .

The length of road to be constructed or improved is 0.36 miles, and
the principal items of work are approximately as follows:

Drainage, Subgrade Preparation, Granular Borrow, Surfacing

and Multi-Plate Backfill

The project is to be completed in ____ working days.

Prequalification of bidders is required. Prior to any bidder's
receiving plans and specifications, it will be necessary that the bidder
have on file with the State Road Commission of Utah completed and
approved, the required Prequalification Statement pertaining to
contractor's experience and financial condition.

The attention of bidders is directed to Special Provisions covering
subletting or assigning the contract.

The attention of bidders is directed to the fact that contractors
engaged in highway construction work are required to meet the provisions
of the Fair Labor Standards Act of 1938 (52 Stat. 1060).

CHEVRON RESOURCES , in accordance with the provisions of Title VI of
the Civil Rights Act of 1964 (78 Stat. 252), hereby notifies all bidders
that it will affirmatively insure that the contract entered into pursuant
to this advertisement will be awarded to the lowest responsible bidder
without discrimination on the grounds of race, color, or national origin.

Proposal forms, plans and specifications are on file in the office of
Chevron Resources and the office of the Project Engineer at Uintah
Engineering, Inc., 85 South 200 East Vernal, Utah, where they may be
reviewed by prospective bidders. Specifications, proposal forms, and
plans may be obtained only at Uintah Engineering, Inc. in Vernal,
Utah, upon application and payment of \$35.00, no part of which will be
refunded.

Notice to Contractors cont'

Each bidder must submit a bid bond from an approved surety company on forms provided by the local agency; or in lieu thereof, cash, certified check, or cashier's check for not less than 5% of the total amount of the bid, made payable to Chevron Resources, as evidence of good faith and a guarantee that if awarded the contract, the bidder will execute the contract and furnish the contract bonds as required. The right to reject any or all bids is reserved.

Dated this _____ day of _____ 19____.

PROJECT LOCATION MAP

A vicinity map to show location of project and its termini is shown on title sheet of plans.

INSTRUCTIONS TO BIDDERS

1. All proposals must be made on the printed form furnished by the Engineer. Proposals must be enclosed in a sealed envelope and endorsed "Proposal for Chevron Resources Multi-Plate and Detour Road, Uintah County, Utah." The proposals should then be placed in a second envelope addressed to Chevron Resources; Vernal, Utah. No responsibility shall attach to Chevron Resources for the premature opening of any proposal not endorsed as above written.

2. Bidders are cautioned that they must inform themselves of the character of the work to be performed under this contract and that a deviation to any extent either way may be made from the approximate quantities, which are stated for the purpose of showing the class of work required and as a basis for determining the amount of the bid, but not to fix the amount of work to be done. The contractor will be paid for work actually done at the unit prices bid, regardless of differences in the estimated quantities listed in the bid proposal and the actual quantities.

3. When a proposal is made by a firm, the firm name and also the individual name(s) of the member(s) of the firm must be signed in full.

4. The place of residence of every bidder must be given after his signature, which must be written in full.

5. No alterations by erasure or interlineation will be allowed and permission will not, in any case, be given for the withdrawal, modifications, or explanation of any bid.

6. Chevron Resources reserves the right to reject any and all proposals and to waive any informality or defects in the proposal received.

7. Bidders must have a bonafied contractor's license and must present satisfactory evidence that they have been regularly engaged in the business or are reasonably familiar therewith, and that they are fully prepared with the necessary capital, materials and machinery to complete the work to be contracted for to the satisfaction of Chevron Resources.

8. Transfers of contract, or of interest in contracts, are prohibited. The General Contractor will be responsible for all subcontractors.

9. Each proposal must be accompanied by a certified check, draft, or bid bond to and made payable to Chevron Resources in the amount of five percent (5%) of the bid which shall be forfeited to Chevron Resources as and for liquidated compensatory damages if the proposal is accepted and the work awarded and the bidder fails to enter into the contract within ten (10) days after the award according to the terms of his proposal, with one legally qualified surety company. All checks, drafts, or bid bonds will be held by Chevron Resources.

INSTRUCTION TO BIDDERS

10. The successful bidder shall immediately furnish to the Engineer, the post office address to which communications to him should be sent.

11. Bidders are invited to be present at the opening of the proposals.

12. These instructions are to be considered with and made a part of the contract.

13. All proposals shall be made and received with the express understanding that the bidder accepts the terms and conditions contained in the complete contract bound therewith.

14. Final payments will be based on quantities in place, measured or determined by the engineer at the site where work has been constructed or accomplished.

15. Bidders must be prequalified with the State of Utah as specified in Section 102 "Bidding Requirements and Conditions"; where joint venture must be submitted by the contractors to Chevron Resources before bid opening.

16. It is required that all blank spaces on the proposal form be filled in correctly. On the bidding schedule the unit prices shall be written in ink in numerals. The subtotals and total amount of bid shall be shown in the places as indicated. The bidder shall sign on the bidding schedule where indicated as to individual bidder, partnership or corporation, whichever may apply. Forms relating to bonding company and bid bond, if used in lieu of cash or check attached in the proposal shall be completed. Substitute forms will not be permitted.

17. Contained in the proposal is a non-collusion affidavit. The affidavit is to be completely filled out, signed and notarized before the bid is submitted.

18. All papers bound with or attached to the proposal form are necessary parts thereof and must not be detached or altered.

19. If the above procedures are not complied with, the bid will be rejected.

SCOPE OF PROJECT

The project will consist of the following:

1. Drainage facilities including cross drains and ditches for natural runoff.

2. Roadway work will consist of a substantial amount of excavation and a substantial amount of embankment for the subgrade which will be obtained from the roadway excavation.

3. Placing a 1' layer of Granular Borrow.

4. Signs will consist of all signing required for adequate traffic control.

5. Placing 6" of untreated base course and ~~8~~⁴" of natural sand asphalt hot mix.

6. Backfilling a multiplate pipe along with a gravel and Portland Cement Concrete Pavement on Highway 191.

BID PROPOSAL

Date _____

CHEVRON RESOURCES

VERNAL, UTAH

Gentlemen:

The undersigned, after having personally and carefully examined the specifications, plans and form of contract and bond, all of which are made a part hereof, proposes to furnish all labor, equipment, tools and machinery, and to furnish and deliver all materials not specifically mentioned as being furnished by the local agency, which is required in and about the construction of a certain roadway in Uintah County, State of Utah, approximately 0.36 miles in length for approximately the sum of _____

Dollars (\$) _____) the said road being that section of Route No. 191 from Engineer Sta. 10+00 to Engineers Sta. 29+00.

The undersigned further proposes to execute the attached contract within ten days after the date of the award, and to begin work within ten days after being notified to do so the local agency, and to complete same within _____ working days.

The undersigned also proposes to furnish bond with the contract, signed by a surety company satisfactory to the local agency as surety, in amount equal to the amount of the contract (as determined from bid prices and estimated quantities listed herein) conditioned to insure that the terms of the contract and the requirements of the specifications will be fully complied with.

The undersigned encloses a certified check, or cash for _____ Dollars (\$) _____) (or five percent bid bond in lieu thereof) payable to the order of Chevron Resources as a guarantee of good faith, and which it is agreed, will be forfeited to the local agency, as liquidated damages in the event of the failure of the undersigned to enter into a contract and furnish satisfactory bond to the local agency within ten days after notice of award.

It is understood that Chevron Resources has the right to reject this proposal or to accept it at the following prices:

ITEM NO.	APPROXIMATE QUANTITIES	ITEMS CHEVRON RESOURCES	UNIT BID PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cent
1.	Lump Sum	Mobilization	o			
2.	Cu. Yd.	Borrow	17,500	00		
3.	Cu. Yd.	Roadway Excavation	4,200	00		
4.	Sq. Yd.	Untreated Base Course 3/4" Max.	6,200	00		
5.	Ton	Prime Coat MC 70 MC 250	3	00		
6.	Sq. Yd.	Natural Sand Asphalt Hot Mix 3/4" Max.	6,000	00		
7.	Lump Sum	Backfill Structural Plate High Profile Arch	o			
8.	Sq. Yd.	Portland Cement Concrete Pavement	60	00		
9.	Ln. Ft.	24" Pipe Culvert	14	00		

ITEM NO.	APPROXIMATE QUANTITIES	ITEMS CHEVRON RESOURCES	UNIT BID PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
10.	146 Ln. Ft.	18" Pipe Culvert	146	00		
11.	26 Each	Delineators	26	00		
12.	4 Each	Object Markers	4	00		
13.	700 Ln. Ft.	Precast Concrete Barrier	700	00		
14.	Lump Sum	Signs & Barricades (As per sheet one of the Plans)	0			
15.	12 Gallon	Highway Traffic Paint	12	00		

ITEM NO.	APPROXIMATE QUANTITIES	ITEMS CHEVRON RESOURCES	UNIT BID PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cent.
16.	Acre	Seeding (As per Chevron Resources Reclamation Plan)		1 31		
17.	Mile	Obliterate Detour Road		0 36		

If incorporated, the following information must be given:

State Chartered Under.....

Name.....

By.....

Address.....

.....
Name of President

If Partnership, names of partners must be below:

.....
Name of Secretary

.....
Name of Treasurer

.....

EQUAL OPPORTUNITY (STATE PROJECTS)

Selection of Labor:

During the performance of this contract, the contractor shall not discriminate against labor from any other State, possession or territory of the United States.

Employment Practices:

During the performance of this contract, the contractor agrees as follows:

The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notice to be provided by the State Highway Department setting forth the provisions of this non-discrimination clause.

The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State Highway Department advising the said labor union or workers' representative of the Contractor's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the Contractor may be declared ineligible for further State contracts.

The Contractor will include the provisions of this Section in every subcontract or purchase order so that such provisions will be binding upon each subcontract or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the State Highway Department may direct as a means of enforcing such provisions including sanctions for noncompliance.

CERTIFICATE OF NON-COLLUSION

CHEVRON RESOURCES
MULTI-PLATE & DETOUR ROAD

Location: Approximately 15 miles
North of Vernal, Utah

STATE OF UTAH)
) SS
County of UINTAH)

AFFIDAVIT

The undersigned of lawful age, being first duly sworn, disposes and says:

That as a condition precedent to the award of the Collector Road project as above captioned, I, _____ of _____ do solemnly swear that neither I, nor to the best of my knowledge any member or members of my firm or company have either directly or indirectly restrained free and competitive bidding on this project by entering into any agreement, participating in any collusion, or otherwise taking any action unauthorized by Chevron Resources, with respect to this contract.

(Contractor)

By: _____
(Title)

Subscribed and sworn to before me this _____ day of _____
19____.

(Notary Public)

My commission Expires _____ Residing at _____

STANDARD SPECIFICATIONS

The State of Utah "Standard Specifications for Road and Bridge Construction", 1979 Edition, shall apply to this project.

TERMINOLOGY

Where the word "State" is referred to it shall also include Chevron Resources.

Where the word "Engineer" is referred to it shall also include the Consulting or Project Engineer employed by Chevron Resources.

Where the word "Commission" is referred to it shall also include the Chevron Resources.

Where the word "State Road Commission of Utah" is referred to they shall also include the Chevron Resources.

Where the words "Local Agency", are referred to, they shall mean Chevron Resources.

Where the word "Inspector" is referred to it shall also include inspectors for Chevron Resources.

SPECIAL PROVISIONS

This will include all items which are in addition to, or deviations from the Standard Specifications.

SPECIAL PROVISION

Award and Execution of Contract

103.02 Award of Contract: The award of contract will be to the lowest responsible and qualified bidder whose proposal complies with all the requirements prescribed. The award, if made, will be within 30 days after the opening of proposals; provided that the Commission may, subject to approval of the successful bidder, withhold award for any length of time. After 30 days, if no award has been made, the Contractor may withdraw his proposal without liability. The successful bidder will be notified, by letter mailed to the address shown on his proposal, that his bid has been accepted and that he has been awarded the contract.

SPECIAL PROVISION

Contingent Sum Pay Item

An item in the bidding schedule provides for a contingent sum amount to cover the cost of temporary erosion control work. The contingent sum item shall also include removal of outdoor advertising signs and any other minor items of work which are necessary to complete the project as ordered in writing by the engineer.

The amount shown in the bidding schedule is the estimated total for all such work required. For work performed that falls within an item of work for which contract price exists, measurement and payment will be made in accordance with the appropriate contract unit price. For work performed which is not covered by contract items of work, payment will be made for such work performed as ordered in writing by the engineer in accordance with provisions of Subsection 109.04 "Extra and Force Account Work" of the Standard Specification.

Revised 2/4/80

SPECIAL PROVISION

Control of Work

The Contractor's attention is directed to the State of Utah Standard Specifications, Edition of 1979 Section 105.05 "Cooperation by Contractor" and the following:

It should also be noted that the contractor shall submit at the time of the award of this contract a detailed written explanation as to how he plans to proceed, so that the Contractor and the Engineer can better work together.

The contractor should be advised that as of the date of the award of this contract, the contractor shall take over maintenance of this section of road. The contractor shall be required to maintain this section of road, to keep it open to traffic at all times, throughout the duration of this project. From the date of award to the date of the Final inspection. No separate payment shall be made for this maintenance, but it shall be covered as set forth in subsection 105.14 MAINTENANCE DURING CONSTRUCTION: of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979.

Revised 10/22/84

SPECIAL PROVISION

Control of Material

Section 106 "Control of Material" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall control with the following modification:

Subsection 106.02 "Local Material Sources" (b) "Contractor Furnished Sources" The following shall be added before the last sentence of the second paragraph:

Fifty percent of this cost shall be paid by the Contractor if the material sources is found to be unacceptable for use as a particular contract bid item.

Subsection 106.03 "Samples, Test, Cited Specifications," shall apply with the following modifications:

The fourth paragraph of this subsection shall be modified to read:

Samples shall be taken and compliance tests made at the point of acceptance in accordance with the applicable section of these specifications.

Articles (a) through (g) and first paragraph of (h) shall be deleted in their entirety.

The 16th paragraph shall be modified to read:

Small quantities of materials may be accepted without sampling or testing when they conform to the following requirements and procedures:

Articles 1 through 7 of the 20th paragraph shall be deleted and the following substituted therefore:

1. Aggregates, other than those used in Portland Cement Concrete - not to exceed 300 tons per day nor more than 1500 tons per project.

2. Bituminous Mixes - not to exceed 150 tons per day nor more than 750 tons per project.

3. Bituminous Material - not to exceed 9 tons per day nor more than 45 tons per project.

4. Paint - not to exceed 55 gallons per project, subject to approval of weight and analysis stated on container.

Control of Material

5. Portland Cement Concrete not to exceed eight Cubic Yards per structure nor 50 Cubic Yards per project. Both aggregate and concrete mix to be accepted subject to visual inspection and satisfactory slump test. For structures under roadway, standard testing procedures shall apply.

6. Small quantities for items other than those noted above may be accepted when approved by the engineer, if the total value of the item, using the unit bid price, is less than \$3,000.00 or 0.5% of the total value of the project, whichever is less.

Revised 10/14/82

SPECIAL PROVISION

Prosecution and Progress

Section 108 "Prosecution and Progress" of the State of Utah Standard Specification for Road and Bridge Construction, Edition of 1979, shall control with the following modifications:

Subsection 108.01 "Notice to Proceed": shall be deleted in its entirety and the following substituted therefore:

Following the execution of the contract, notice will be given the Contractor in writing to proceed with the work. Charging of contract time shall begin on the 10th day following the date of the mailing by regular mail of a Notice to Proceed. The Contractor shall notify the Engineer at least 5 days before beginning work.

Except with written approval of the Project Engineer, the Contractor will commence work within the time specified.

When the contract is such that the best interest of the public is served by permitting the Contractor to schedule the beginning of Contract Time Computation within the construction season the following rules apply:

1. The Department shall select the contracts to be so administered. Those contracts to be so administered shall contain a "Contract Time Option Form."

2. At the time of bidding, the contractor shall submit on the "Contract Time Option Form" the date that contract time will commence. This date shall not be later than the date scheduled by the Department on the "Contract Time Option Form." Stipulating the date upon which the contract begins on the "Contract Time Option Form" negates that portion of this Subsection provides for a Notice to Proceed.

3. Contract time will be charged on a working day basis as outlined in Subsection 108.06.

4. Contract time will commence on the day selected and shall not exceed the number of working days listed in the contract.

5. Failure to complete "Contract Time Option Form" when it is included in the bid document will cause time to commence the 10th day following the Notice to Proceed.

6. A request to change the date for the beginning of the contract time computation, as shown on the signed "Contract Time Option Form," must be agreed upon in a letter from the Department. The Contractor will make his request 15 calendar days prior to the beginning of contract time computation on the revised signed "Contract Time Option Form."

Time is of the essence of all contracts.

Subsection 108.02 "Subletting of Contract" shall conform with the addition of the following paragraph:

Subcontract agreements between the prime contractor and the subcontractors or between subcontractors when applicable. Will provide for a reduction in retainage against the prime contractor by the percentage held as retainage against the prime contractor by the Department. However, in those instances where subcontracted work is commenced after the Department has reduced the percentage of retainage withheld from the prime contractor, the prime contractor may withhold 10% of the total value of work performed by the subcontractor until such time as work covered by the prime contractor will be reduced in accordance with the concepts of subsection 109.06, fourth paragraph. Retention monies withheld from the subcontractor will then be reduced to 1 1/2% of the total value of work to be performed by the subcontractor at the time the subcontract work is 95% complete of the prime contractor's retention is reduced to this amount, whichever comes latest.

Subsection 108.06 "Determination of Contract Time" shall be deleted in its entirety and the following substituted therefore:

The number of days allowed for completion of the work included in the contract will be stated in the proposal and contract, and will be known as the "Contract Time."

When the contract time is on a working day basis. The Engineer will furnish the Contractor a monthly statement showing the number of days charged to the contract for the preceding month and the number of days specified for completion of the contract. The Contractor will be allowed two weeks in which to file a written protest setting forth in what respect said monthly statement is incorrect, otherwise the statement shall be deemed to have been accepted by the Contractor as correct. Saturdays, Sundays, legal holidays and periods of suspension of work on all items as ordered by the Engineer shall be excluded from the computation. No working days will be charged during the months of December, January and February.

When the contract time is on a calendar day basis it shall consist of the number of calendar days stated in the contract counting from the effective date as defined in Subsection 108.01, including all Saturdays, Sundays, holidays and non-work days. All calendar days elapsing between the effective dates of any orders of the Engineer to suspend work and to resume work for suspensions not the fault of the Contractor shall be excluded.

When the contract completion time is a fixed calendar date, it shall be the date on which all work on the project shall be completed.

No exclusion of contract time will be made if the work is suspended for non-compliance.

Additional time to be added to calendar day and completion date contracts shall be added in calendar days. Additional time to be added to working day contracts shall be added in working days.

If the Contractor finds it impossible for reasons beyond his control to complete the work within the contract time as specified or extended in accordance with the provisions of this subsection, he may, at any time prior to the expiration of the contract time as extended, make a written request to the Engineer for an extension of time setting forth therein the reasons which he believes will justify the granting of this request. The Contractor's plea that insufficient time was specified is not a valid reason for extension of time. If the Engineer finds that the work was delayed because of conditions beyond the control and without the fault of the Contractor he may extend the time for completion in such amount as the conditions justify. The extended time for completion shall then be in full force and effect the same as though it were the original time for completion.

Subsection 108.08 "Failure to complete on Time," the table of liquidated damages shall be deleted and the following substituted therefore:

ORIGINAL CONTRACT AMOUNT

DAILY CHARGE

From More Than	To And Including	Calendar Day Or Fixed Date	Work Day
\$ 0	\$ 25,000	\$ 45	\$ 63
25,000	50,000	75	105
50,000	100,000	110	154
100,000	500,000	150	210
500,000	1,000,000	225	315
1,000,000	2,000,000	300	420
2,000,000	5,000,000	450	630
5,000,000	10,000,000	600	840
10,000,000	----	700	980

Subsection 108.10 "Emergency Termination of Contract," shall be deleted in its entirety and the following substituted therefore:

108.10 Termination of Contract. The Department may, by written order, terminate the contract or any portion thereof after determining that for reasons beyond either Department or Contractor control he is prevented from proceeding with or completing the work as originally contracted for, and that ermination would therefore be in the public interest. Such reasons for termination may include, but not be necessarily limited to, executive orders of the President relating to prosection of war or national defense, national emergency which creates a serious shortage of materials, orders from duly constituted authorities relating to energy conservations, and restraining orders or injections obtained by third-party citizen action resulting from national or local environmental protection laws or where the issuance of such order or injunction is primarily caused by acts or commissions of persons or agencies other than the Contractor.

When the Department orders termination of a contract effective on a certain date, all completed items of work as of that date will be paid for at the contract bid price. Payment for partially completed work will be made either at agreed prices or by force account methods described elsewhere in these Specifications. Items which are eliminated in their entirety by such termination shall be paid for as proved in Subsection 109.05 of these Specifications.

Acceptable materials, obtained by the Contractor for the work but which have not been incorporated therein, may at the option of the Department, be purchased for the Contractor at actual cost delivered to a prescribed location, or otherwise disposed of as mutually agreed.

After receipt of Notice of Termination from the Department, the Contractor shall submit, within 60 days of the effective termination date, his claim for additional damages or costs not covered above or elsewhere in these Specifications. Such claim may include such cost items as reasonable idle equipment time, mobilization efforts, bidding and project investigative costs, overhead expenses attributable to the project terminated, legal and accounting charges involved in claim preparation, subcontractor costs not otherwise paid for, actual idle labor cost if work is stopped in advance of termination date, guaranteed payments for private land usage as part of original contract, and any other cost or damage item for which the Contract feels reimbursement should be made. The intent of negotiating this claim would be that an equitable settlement figure be reached with the Contractor. In no event, however, will loss of anticipated profits be considered as part of any settlement.

The Contractor agrees to make his cost records available to the extent necessary to determine the validity and amount of each item claimed.

Termination of a contract of portion thereof shall not relieve the Contractor of his contractual responsibilities for the work completed, nor shall it relieve the Surety or its obligation for and concerning any just claim arising out of the work performed.

Revised 4/29/81

SPECIAL PROVISION

Force Account Invoice

Section 109 "Measurement and Payment" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall be modified as follows:

Subsection 109.04 "Extra and Force Account Work" (c) is deleted in its entirety, and replaced by the following:

(c) Equipment: For any machinery or special equipment (other than small tools), including fuel and lubricants, plus transportation costs, the use of which has been authorized by the engineer, including the use for hauling of materials and equipment, the contractor shall receive the prevailing hourly equipment rental rates. These hourly rates shall be determined by using the monthly rental rate taken from the current edition of the "Rental Rate Blue Book for Construction Equipment" divided by 176. "The Rental Rate Blue Book for Construction Equipment" is published by the Equipment Guide-Book Company, Palo Alto, California. Updated supplements, dated supplements, dated by the Department, will be authorized for the used statewide on specified dates. An allowance will be made for operating costs for each and every hour the machinery or equipment is actually operating in accordance with the rates listed in the aforesaid rental book.

Rates not provided by the aforementioned "Rental Rate Blue Book; must be approved by the Office of Construction prior to the start of any "force account work: on which the equipment will be used. No adjustment percentage, as shown on the maps in the "Rental Rate Blue Book," shall be used with the rental rate because of the predominant area condition.

If the machinery or equipment is required to be at the work site on standby, but is not operating, the contractor may be compensated at the hourly rental rate exclusive of operating costs. The duration of standby time is to be determined when standby time is approved.

"Move-in" and "Move-out" charges required by the piece of equipment not available on the job will be included as part of the extra at actual transportation cost, if the particular piece of equipment is not moved onto the specific job under its own power. Total hourly rate, without operator, shall be allowed for equipment moved to the site of the work under its own power. This shall apply to equipment moved within the limits of the project. "Move-in" and "Move-out" charges will be paid only once for any particular piece of equipment except in unusual circumstances which must be justified in writing and agreed to by the project engineer.

Whenever the "Manufacturer's Rated Capacity" falls between those shown in this book, the closest will be used. Do not interpolate for rates in between.

Force Account Invoice

All rates shall be agreed upon in writing before any work is begun, measured as provided in Subsection 109.01. No percentage shall be added to this amount.

The "Rental Rate Blue Book" can be purchased from Equipment Guide Book Company, 2800 West Bayshore Road, P.O. Box 10113, Palo Alto, California, 94303.

Revised 6/7/79

SPECIAL PROVISION

Clearing and Grubbing

Section 201 "Clearing and Grubbing" of the State of Utah Standard Specifications of Road and Bridge Construction, Edition 1979, shall be modified as follows:

Subsection 201.03 "Methods of Measurement" shall be deleted in its entirety.

Subsection 201.04 "Basis of Payment"; Paragraph (a), and (b) shall be deleted.

Revised 10/22/84

SPECIAL PROVISION

Overhaul

The contractor should be advised of Section 205 - Overhaul of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979 which states:

205.01 Description: Overhaul shall consist of the transporting, in excess of the free haul distance of excavated material from its original location to its final location in the work. Excavated material may be hauled any distance as specified or directed.

205.02 Basis of Payment: Overhaul shall not be paid for as a separate item, but shall be included in the contract unit prices of other items of work.

The contractor's attention is also called to Subsection 204.03 "Construction Methods" PARAGRAPH OF Section 204 - Borrow, Granular Borrow and Granular Backfill Borrow, of the State of Utah Standard Specifications of Utah Road and Bridge Construction, Edition of 1979 which states as follows:

Borrow material shall not be placed until after the roadway excavation has been placed, unless approved by the Engineer. If the Contractor places more borrow than is required and thereby causes a waste of excavation, the amount of such waste will be deducted from the borrow volume.

SPECIAL PROVISION

Embankment and Backfill

Section 206 "Embankment and Backfill" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall control with the following modification:

206.02 - Construction Requirements: Shall be modified as follows:

These two sentences shall be added to the third paragraph of this subsection.

"Compaction shall be performed with equipment specifically designed for compaction purposes. The equipment shall be adequate to meet compaction requirements"

Revised 5/9/79

SPECIAL PROVISION

Compaction and Backfill Compaction

Section 208 "Compaction and Backfill Compaction" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall control with the following modification:

208.02 Density Requirements: The second paragraph shall be changed to read as follows:

A test lot shall be accepted when the average of the density determinations is not less than 96 percent of maximum laboratory density and when no determination is lower than 92 percent of maximum laboratory density. The maximum laboratory density shall be determined in accordance with AASHTO Designation T-99, Method D, for all soils. However, when A-1 material is specified, the maximum laboratory density for this A-1 material shall be determined in accordance with AASHTO Designation T-180, Methods D.

Revised 7/18/80

SPECIAL PROVISION

Untreated Base Course

Section 301 "Untreated Base Course" of the State of Utah Standard Specifications for Road and Bridge Construction, edition of 1979, shall control with the following modification:

303.01 Description: This item shall consist of the construction of a base course composed of natural gravel, crushed rock, or crushed slag (CONTRACTOR FURNISHED) placed on a prepared subgrade in reasonable close conformance with the lines, grades and dimensions shown on the plans of established by the Engineer and in accordance with these specifications.

Subsection 301.07 Method of Measurement: (a) Untreated Base Course shall be measured by the square yard of area at the finished surface of the completed and accepted thickness or thicknesses of the base course. The measured area shall be computed with the specified width at the top of the base course as shown on the typical cross-section multiplied by the completed length of roadway; plus the nominal area of driveways, approaches and parking ramps. The nominal area of driveways, approaches and parking ramps shall be computed with the specified width as above, less typical roadway width, multiplied by the completed length of the driveway, approach or parking ramp; but the nominal area shall not include the area of fillets or radii as required by the plans or by the project Engineer.

Subsection 301.08 Basis of Payment: (a) Mineral aggregate - The accepted quantities of this item shall be paid for at the contract unit price per square yard for "Untreated Base Course" which price shall include all work necessary to complete this item, including water added during mixing.

Revised 2/12/80

SPECIAL PROVISION

SR-262(3)

Native Sand Asphalt Hot Mix

Section 402 of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979 shall apply with the following modifications:

1. The asphalt mix at the plant will not exceed 210 F unless directed in writing by the engineer.
2. The asphalt mix shall be placed on the roadway and the compaction completed with a minimum temperature of 130 F.
3. All material larger than 1 1/2" will be removed from the mix prior to placement on the roadway.
4. The engineer reserves the right to adjust the + #4 aggregate and/or the natural sand asphalt mix by ± 5.0%.
5. The + #4 mineral aggregate gradation is:

<u>Sieve Size</u>	<u>Percent Passing</u>
3/4"	100.0
3/8"	40 - 50
#4	0 - 10

6. Measurement shall be made by the ton of the "Native Sand Asphalt Hot Mix" which shall be for the native sand asphalt and the mineral aggregate as a complete unit.
7. Payment shall be made at the contract unit price per ton for "Native Sand Asphalt Hot Mix", which price shall be full compensation for all work and materials necessary to complete the item.

6/29/83

SPECIAL PROVISION

Bituminous Prime Coat

Section 403 - "Bituminous Prime Coat" Of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall conform with the following modification.

Section 403.09 Methods of Measurement: Paragraph (b) shall be deleted.

Section 403.10 Basis of Payment: This section shall be changed to read as follows:

(a) Bituminous material: This item shall be paid for at the contract unit price per ton for "Bituminous Material" of the type and grade used which price, shall be full compensation for all work and materials including Blotter material and other incidentals necessary to complete this item.

(b) Flagging and pilot car operation: Flagging and pilot car operation shall be measured and paid for as provided in Section 627.

SPECIAL PROVISION

Concrete Structures

Section 506 "Concrete Structures" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall conform with the following modification.

Section 506.12 "Cold Weather Concreting" shall be amended by the deletion of the third paragraph and replacing it with the following:

In order to insure adequate curing of the concrete to obtain necessary early strength gain prior to loading, proper temperature and moisture conditions must be maintained.

Regardless of ambient air temperatures, the temperatures of the concrete shall be maintained at a minimum of 60 degrees F. for at least an accumulated total of 72 hours within the first seven days after placement. During the seven day period the concrete temperature shall not be allowed to fall below 40 degrees F. Artificial heating of the concrete will be required, if necessary, to maintain these minimum temperatures.

Concrete temperature shall be determined by a thermometer placed on the concrete surface and insulated from surrounding air temperature.

When cold water protection has been provided, it shall be discontinued gradually in a manner such that the rate of temperature reduction adjacent to the concrete surfaces will not be more than 20 degrees F. during any 12 hour period, until the surface temperature reaches that of the atmosphere.

Revised 4/29/81

SPECIAL PROVISION

Construction Signs

Section 625 "Construction Signs and Warning Lights" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall control with the following modifications:

625.01 - Signs: The following shall be added to this subsection:

The reflective sheeting for construction signs shall conform to Subsection 726.03, Article (b) "Encapsulated Lens" except Chevron Panels and Barricades, which shall conform to Article (a) "Enclosed Lens" of the same subsection.

Revised 10/22/84

SPECIAL PROVISION

Flagging and Pilot Car Operation

Section 627 "Flagging and Pilot Car Operation" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall conform with the following modifications:

Subsection 627.04 "Method of Measurement" (d) of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979 shall be amended to read as follows:

Flagging is authorized at the recognized approach between the materials site and disposal sites and the public highway. Materials sites or disposal sites may be contractor furnished or Department optioned. This provision does not apply at commercial sites where other agencies are the general public are obtaining or disposing materials. Payment shall not be made for flagging at other locations outside of project limits.

Subsection 627.05 "Basis of Payment": (a) "Flagging" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979 shall be amended to read as follows:

Flagging shall be paid for at the fixed unit price per hour for "Flagging," as determined by the State, which price shall be full compensation for all work necessary to complete the item. Increases or decreases of more than 25% in the estimated quantities for this item shall not be cause for adjustment of the prescribed price.

The contractor will pay an hourly rate equal to or higher than the minimum wage set forth by Utah State Statute.

No payment shall be made for flagging which is used after expiration of the specified contract time and any approved extensions thereof.

Revised 5/24/79

SPECIAL PROVISIONPaints and Related Products

Section 713 "Paints and Related Products" of the State of Utah Standard Specifications for Road and Bridge Construction, Edition of 1979, shall control with the following modification:

713.07 Standard Traffic Paint

<u>COMPOSITION</u>	<u>THORETHICAL POUNDS PER 100 GALLONS</u>		
	<u>780</u> <u>WHITE</u>	<u>781</u> <u>YELLOW</u>	<u>BLACK</u>
Alkyd Resin 60% Solids (1)	130	130	148
Chlorinated Paraffin, 40%	75	75	59
Chlorinated Rubber, 20 cps	110	110	59
Chlorinated Resin	---	---	30
Methyl Ethyl Ketone, ASTM 740	100	100	104
Toluene, ASTM D-362	100	100	66
Solvent Aliphatic #2 (3)	100	100	148
Methyl Alcohol, ASTM D-2635	5	5	4
6% Cobalt Napthenate, ASTM D-600	1	1	0.7
24% Lead Napthenate, ASTM D-600	2	2	2
Erkin #2	3	3	3
Betone 38	4	4	9
Propylene Oxide	2	2	2
Soya Lecithin	---	---	4
Normal Lead Silico Chromate (4) or Medium Chrom Yellow, TT-P-346, Type III			
Titanium Dioxide Pigment, ASTM D-476, Type III, TiO ₂ 80% Min. 85% Max.	150	25	0
Magnesium Silicate, ASTM D-605	175	175	100
Calcium Carbonate, ASTM D-1199	235	215	100
Uncalcined Diatomaceous Silicate, ASTM D-604 Type	---	---	100
Furnace Black	---	---	40

CHARACTERISTICS OF FINISHED PAINT

Pigment, Percent by Weight	45.3-49.3	45.5-49.5	34-37
Total Nonvolatile, Percent by Weight	64.5-71.5	67.6-71.5	58-62
Viscosity, KU at 77 F	72-82	72-82	65-78
Fineness of Grind, Hegman	4 min.	4 min.	2.5 min.
Weight per Gallon, Pounds	11.3-11.9	11.4-12.0	9.5-10.0
Dry Time, ASTM D-711, Minutes	3-8	3-8	4-8
Nonvolatile Vehicle % by Weight, Total Paint	22 min.	22 min.	24 min.
Chlorinated Rubber % by Weight of Nonvolatile Vehicle	41 min.	41 min.	24 min.
Titanium Dioxide Pigment, % by Weight of Pigment	26 min.	4.4 min.	---
ASTM D-476 Type III			

TRAFFIC PAINT RAW MATERIALS

1. Alkyed Resin

The alkyd resin solution shall be a medium length, pure drying alkyd prepared from soya oil and shall contain no resin or phenolic resin modifiers.

The composition of the solid resin shall be as follows:

Iodine Number of Fatty Acids	115 Minimum
Refractive Index of Fatty Acids	1.4660 Minimum

PERCENT BY WEIGHT

Phthalic Anhydride	33 - 37
Oil Acids	48 - 55
Acid Number	8 Maximum
Ash Residue	0.05 Maximum
Unsaponifiable	1.0 Maximum

The alkyd resin solution shall be processed in such a manner as to yield the following characteristics at 59 - 61% solids by weight at 77 F:

Viscosity, Gardner - Holdt	Z 1 - 3
Acid Number	2 - 6
Pounds Per Gallon	7.69 - 7.77
Color, Gardner 1933	5 - 7

The volatiles shall be VM&P Naptha TT-N-95

2. and 3. Aliphatic Solvents #1 and #2

<u>PROPERTIES</u>	<u>#1</u>	<u>#2</u>
Gravity, API at 60 F	60.6	64.0
Gravity, Specific at 60 F	0.7366	0.7237
Pounds Per Gallon at 60 F	6.13	6.02
Flash Point TCC F	10	30
Flash Point TOC F	12	39
Aniline Point F	121	139
Kauri Butanol Value	40	34
Reid Vapor Pressure, lbs.	2.8	1.9
Threshold Limit Value, ppm	225	375
Explosive Limits - Lower	1.1	1.0
Volume % in Air - Upper	6.5	6.0
Composition - Volume %		
Toluene/Ethylbenzene	7.0	1.0
Xylene C8 + Aromatics	0.0	0.0
Naphthenes	52.0	38
Paraffins	41	61

2. and 3. Aliphatic Solvents #1 and #2 (Con't)

<u>PROPERTIES</u>	<u>#1</u>	<u>#2</u>
Color Saybolt	+30	+30
Distillation, D-36 F*		
Initial Boiling Point	188	204
10% Recovered	196	211
50% Recovered	200	217
70% Recovered	223	224
90% Recovered	208	236
Dry Point	224	252
End Point	247	264
Spontaneous Ignition Temperature F	515	530
Freezing Point F	-100	-30
Molecular Weight, Average	96	101
Solubility Parameter	7.4	7.4
Refractive Index 20 C	1.4088	1.4040
Thermal Conductivity, 60 F, BTU/HR/FT/Deg F	0.093	0.092
Heat of Vaporization, BUT/LB	141	138
Heat of Combustio, BUT/LB	18,790	18,820

4. Normal Lead Silico Chromate

	<u>#1</u>
Specific Gravity	3.8 min.
Weight per Gallon, Pounds	31.6 min.
Oil Absorption, g. per 100 g	14 to 17
Average Particle Size	6 microns
Percent Rataineed on 325 Sieve	0.30 max.
Percent Lead Oxide (PbO)	31.5 to 35.0
Percent Chrome Trioxide (CrO3)	14.0 to 15.7
Silica, Silicates and Carbonates	Balance

713.08 Rapid Dry Traffic Paints:

<u>COMPOSITION</u>	<u>POUNDS PER 100 GALLONS</u>	
	<u>730</u> <u>WHITE</u>	<u>573</u> <u>YELLOW</u>
Alkyd Resin, 60% Solids (1)	101	105.8
Chlorinated Paraffin 40%	57.7	57.7
Chlorinated Rubber 20 cps	125	125
Methyl Ethyl Keytone, ASTM D-740	162.5	165.4
Solvent, Aliphatic #1 (2)	121.2	123.1
6% Colbalt Napthenate, ASTM D-600	.5	.5
24% Lead Napthenate, ASTM D-600	1.25	1.25
Propolene Oxide	1.92	1.92
Exkin No. 2	2.1	2.2
Soya Lecithin	7.7	7.7
Bentone 38	3.8	3.8
Titanium Dioxide Pigment ASTM D-476, Type III TiO2 80% Min. 85% Max.	144.2	---
Normal Lead Silco Chromate* (4) or Chrome Yellow, TT-P-346, Type III	---	144.2
Diatomaceous Silica, ASTM D-604 Type B	57.7	57.7
Magnesium Silicte, ASTM D-605	96.2	129.8
Calcium Corbonate, ASTM D-1199	336.5	278.8

CHARACTERISTICS OF FINISHED PAINT

Pigment, Percent by Weight of Paint	50-54	49-53
Total Nonvolatile, Percent by Weight of Paint	71-75	70-74
Viscosity, KU at 77 F	81-93	81-93
Fineness of Grind, Hegman	3 min.	3 min.
Weight per Gallon, Pounds	11.9-12.5	11.7-12.3
Monvolatile Vehicle % By Weight Total Paint	19 min.	20 min.
Chlorinated Rubber % By Weight of Nonvolatile Vehicle	49 min.	49 min.
Titanium Dioxide Pigment % Be Weight of Pigment ASTM D-476 Type III	22 min.	---
Dry Time, ASTM D-711, minutes	1 max.	1 max.

TRAFFIC PAINT RAM MATERIALS

1. Alkyd Resin

The alkyd resin solution shall be a medium length, pure drying alkyd prepared from soya oil and shall contain no resin or phenolic resin modifiers.

The composition of the solid resin shall be as follows:

Iodine Number of Fatty Acids	115 Minimum
Refractive Index of Fatty Acids	1.4660 Minimum

PERCENT BY WEIGHT

Phthalic Anhydride	33 - 37
Oil Acids	48 - 55
Acid Number	8 Maximum
Ash Residue	0.05 Maximum
Unsaponifiable	1.0 Maximum

The alkyd resin solution shall be processed in such a manner to yield the following characteristics at 59 - 61% solids by weight at 77 F:

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Acid Number	2 - 6
Pounds Per Gallon	7.69 - 7.77
Color, Gardner 1933	5 - 7

The volatiles shall be VM&P Naptha, TT-N-95.

2. and 3. Aliphatic Solvents #1 and #2.

<u>PROPERTIES</u>	<u>#1</u>	<u>#2</u>
Gravity, API at 60 F	60.6	64.0
Gravity, Specific at 60 F	0.7366	0.7237
Pounds Per Gallon at 60 F	6.13	6.02
Flash Point TCC F	10	30
Flash Point TOC F	12	39
Aniline Point F	121	139
Kauri Butanol Value	40	34
Reid Vapor Pressure, Lbs	2.8	1.9
Threshold Limit Value, ppm	225	375
Explosive Limits - Lower	1.1	1.0
Volume % in Air - Upper	6.5	6.0
Composition - Volume %		
Toluen/Ethylbenzene	7.0	1.0
Xylene C8 + Aromatics	0.0	0.0
Naphthenes	52.0	38
Paraffins	41	61

2. and 3. Aliphatic Solvents #1 and #2 (Con't)

<u>PROPERTIES</u>	<u>#1</u>	<u>#2</u>
Color Saybolt	+30	+30
Distillation, D-36 F*		
Initial Boiling Point	188	204
10% Recovered	196	211
50% Recovered	200	217
70% Recovered	223	224
90% Recovered	208	236
Dry Point	224	252
End Point	247	264
Spontaneous Ignition Temperature F	515	530
Freezing Point F	-100	-30
Molecular Weight, Average	96	101
Solubility Parameter	7.4	7.4
Refractive Index 20 C	1.4088	1.4040
Thermal Conductivity, 60 F, DTU/HR/Deg F	0.093	0.092
Heat of Vaporization, BUT/LB	141	138
Heat of Combustion, BTU/LB	18,790	18,820

4. Normal Lead Silico Chrome

Specific Gravity	3.8 min.
Weight per Gallon, Pounds	31.6 min.
Oil Absorption, g. per 100 g	14 to 17
Average Particale Size	6 microns
Percent Retained on 325 Sieve	0.30 max.
Percent Lead Oxide (PbO)	31.5 to 35.0
Percent Chrome Trioxide (CrO3)	14.0 to 15.7
Silica, Silicates and Carbonates	Balance

Revised 4/9/80

SUPPLEMENTAL SPECIFICATION

Precast Concrete Barriers

Section 622A, "Precast Concrete Barriers," of Addendum No. 1, July 1, 1981, to the "Standard Specifications for Road and Bridge Construction" shall control with the following modifications:

Subsection 622A.01 Description: shall be modified by addition of the following: This item shall also include furnishing and installing barrier reflectors as indicated on the plans.

The reflectors shall be constructed of methylnmethacrylate plastic conforming to Federal Specifications LP-380C, Type I, Class C and have a minimum reflective area of 6 square inches. The angle of the reflecting face shall be not greater than 15°.

The specific intensity of the white reflector at a 0.1° observation angle shall be as follows:

<u>Horizontal Entrance Angle</u>	<u>Specific Intensity</u>
+ 0°	115-125
+15°	115-125
+35°	45-55

For yellow reflectors the value shall be 60% of the specific intensity for white.

Reflectors shall be mounted to barrier by use of manufacturer's recommended adhesive.

Subsection 622A.03 Manufacturing, Curing and Sealing: shall be deleted in its entirety and the following substituted therefor:

Precase Concrete Barriers shall be manufactured and cured in accordance with the applicable articles of Section 506 except that the water method or steam method (as prescribed in the second paragraph of Subsection 507.09) of curing is specified. The curing shall continue a minimum of seven days or until the compressive strength of cylindrical concrete specimens, cured in a like manner as the precast concrete barriers, reach a minimum of 3000 psi, whichever comes first. The above specified compressive strength does not relieve the contractor from the requirements in Section 505 regarding compressive strengths of laboratory cured concrete specimens. When curing is complete, the surface shall be broom cleaned and coated with two coats of a sealing compound conforming to Subsection 706.01(b). The first coat shall be applied at a rate of 350+35 square feet per gallon and the second at a rate of 600+60 square feet per gallon. The first coat shall be allowed to dry prior to application of the second coat.

Subsection 622A.06 Basis of Payment: shall be modified by addition of the following: Object Markers used on precast barrier terminal sections and barrier reflectors shall not be paid for separately, but shall be included in the bid price for "Precast Concrete Barriers." Asphalt impregnated polyurethane foam blocks shall also be included in the bid price for "Precast Concrete Barriers."

SUPPLEMENTAL SPECIFICATION

Backfill Structural Plate High Profile Arch

Description: This item shall consist of supplying all materials, tools, equipment, labor and other incidentals necessary to complete the backfill and compaction of a 42'9" X 30'2" syro steel structural plate high profile arch (or equiv.). The contractor should be advised that the placement of backfill on frozen embankment previously placed will not be permitted nor allowed.

Method of Measurement & Basis of Payment: This item shall be measured as one unit and paid for at the contract lump sum price for "Backfill Structural Plate High Profile Arch" which price shall include all backfill material, tools, equipment, labor and other incidentals necessary to complete the item.

CONTRACT

THIS AGREEMENT, made and excuted in _____ original counterparts
this _____ day of _____ 19 _____ between Chevron Resources,
hereinafter call "local agency" first party, and _____
_____ hereinafter called "contractor" second
party.

WITHESETH, that for and in consideration of payments, hereinafter
mentioned, to be made by the local agency, the Contractor agrees to
furnish all labor and equipment, to furnish and deliver all materials not
specifically mentioned as being furnished by the local agency and to do
and perform all work in the construction of Chevron Resources Multi-Plate
and Detour Road in Uintah County, State of Utah, the same being that
section approximately 0.36 miles in length, for the approximate sum
of _____ Dollars (\$ _____).

The Contractor further covenants and agrees that all of said work and
labor shall be done and performed in the best and most workmanlike manner
and in strict conformity with the plans and specifications. The said
plans and specifications and the notice to contractors instructions to
bidders, the proposal, special provisions, and contract bond are hereby
made a part of this agreement as fully and to the same had been set forth
at length herein.

In consideration of the foregoing premises, Chevron Resources, agrees
to pay to the Contractor in the manner and in the amount provided in the
said specifications and proposal.

IN WITNESS WHEREOF, the parties here have subscribed their names
through their proper officers thereunto duly authorized as of the day and
year first written.

ATTEST:

First Party

Witnesses

Second Party

BY: _____

KNOW ALL MEN BY THESE PRESENTS:

That, _____, hereinafter referred to as the "Principal," and _____ a corporation organized and existing under the laws of the State of _____ with its principal office in the City of _____, hereinafter referred to as the "Surety," are held and firmly bound unto _____ hereinafter referred to as the "Obligee," in the amount of _____ Dollars (\$ _____)

for the payment whereof, the said Principal and Surety bind themselves, their heirs, administrators, executors, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written contract with the Obligee, dated the _____ day of _____, 19____, to construct _____

in the County of _____ State of Utah, Project No. _____ for the approximate sum of _____

_____ Dollars (\$ _____), which contract is hereby referred to and made a part hereof as fully and to the same extent as if copied at length herein.

NOW, THEREFORE, the condition of this obligation is such, that if the said Principal shall pay all claimants supplying labor or materials to him or his subcontractors in the prosecution of the work provided for in said contract, then, this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of Title 14, Chapter 1, Utah Code Annotated, 1953, as amended, and all liabilities on this bond to all such claimants shall be determined in accordance with said provisions, to the same extent as if it were copied at length herein.

IN WITNESS WHEREOF, the said Principal and Surety have signed and sealed this instrument this _____ day of _____, 19____

WITNESS OR ATTESTATION:

WITNESS:

(Seal)

(Seal)

(Seal)
Principal

Surety
By _____
Attorney-in-Fact

STATE OF UTAH
COUNTY OF SALT LAKE

ss.

_____ being first duly sworn on oath disposes and says, that he is the Attorney-in-Fact of the _____ and that he is duly authorized to execute and deliver the foregoing obligation, that said Company is authorized to execute the same, and has complied in all respects with the laws of Utah in reference to becoming sole surety upon bonds, undertakings, and obligations.

Subscribed and sworn to before me this _____ day of _____, 19____

Notary Public

My commission expires: _____

APPROVED AS TO FORM:

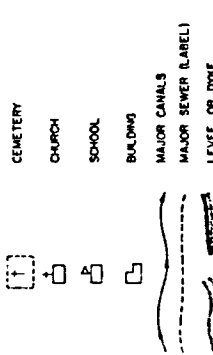
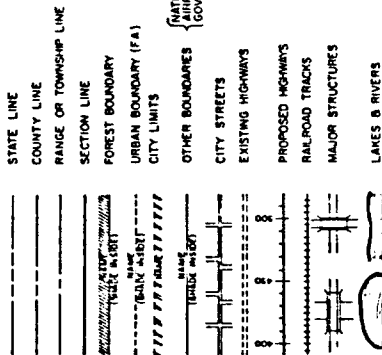
Assistant Attorney General

STANDARD DRAWINGS

Number

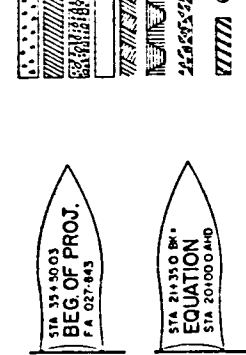
110	Conventional Symbols and Signs
605-1	Fill Heights for Pipe Culverts
605-3	Watertight Connecting Bands for C.M.P.
726-2	Delineation Other than Interstate
726-3	Object Markers A
735-1B	Precast Concrete Barrier Transition and Terminal Sections
735-1C	Precast Concrete Barrier Standard Sections
745-1B	Construction Notification Signs
745-1C	Construction Signing Barricades
805-1	Superelevation and Widening

TITLE SHEET

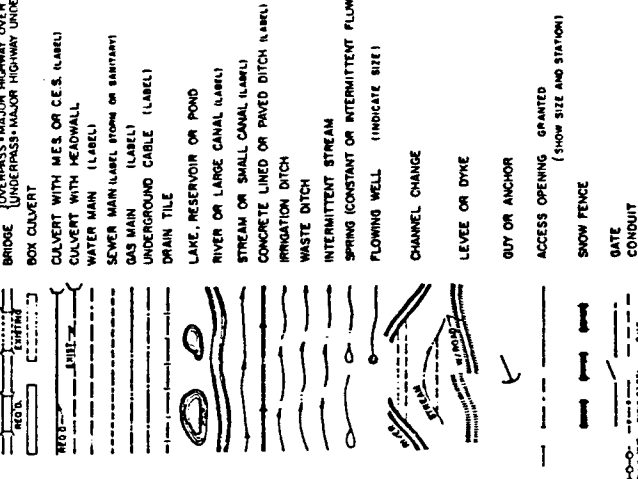
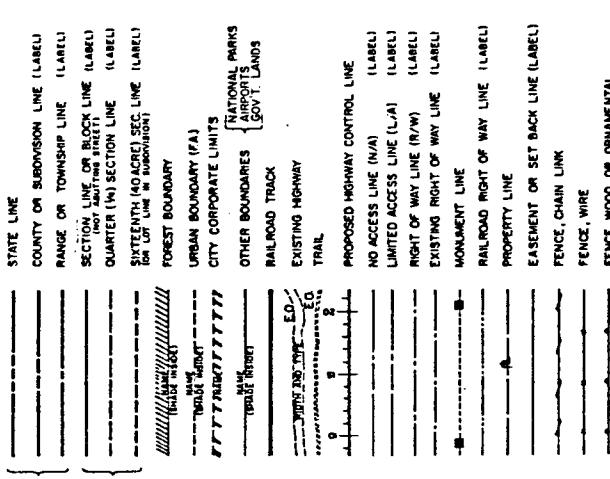


SECTION SYMBOLS

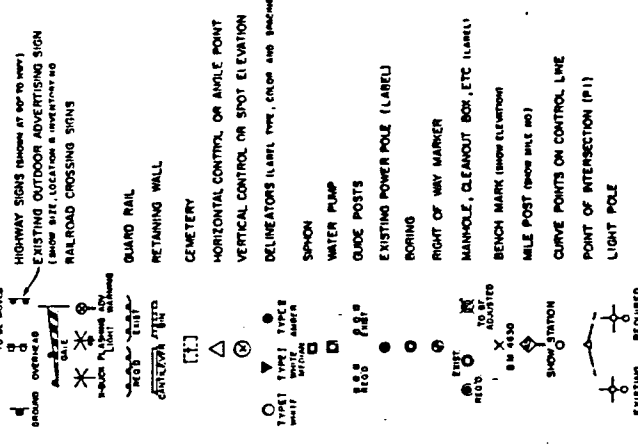
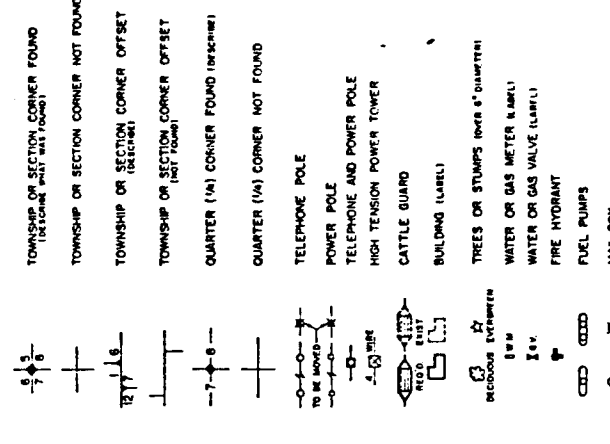
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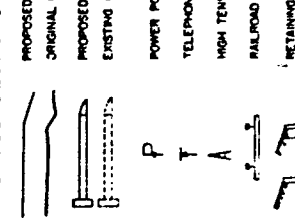
PLAN SHEET



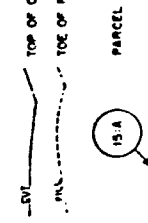
PROFILE



CROSS SECTIONS



R/W PLANS

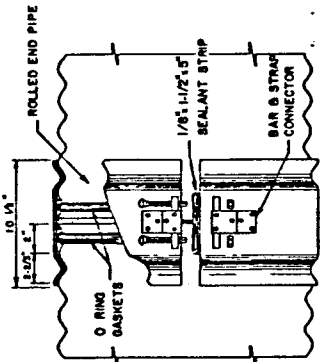
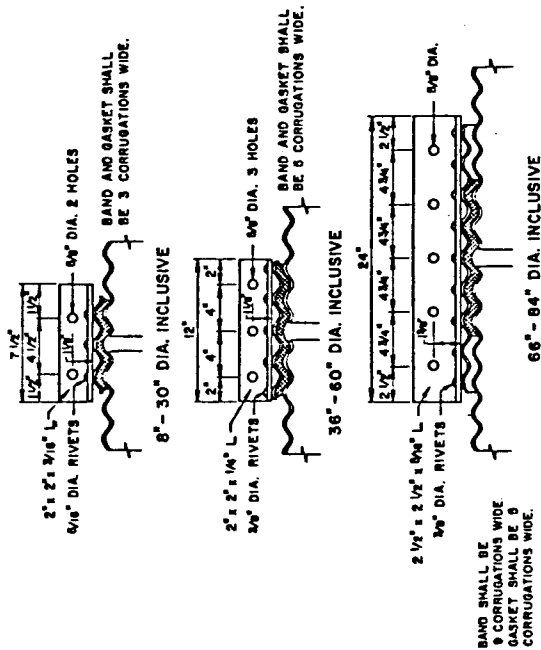


UTAH DEPARTMENT OF HIGHWAYS

CONVENTIONAL SYMBOLS AND SIGNS

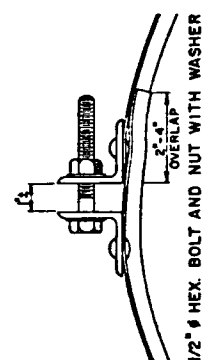
SUPERVISOR	DATE	12 5 72
DIVISION	DATE	12 5 72
PROJECT NO.	PROJECT NAME	PROJECT LOCATION
DRAWN BY: <i>John P. [Signature]</i> CHECKED BY: <i>John P. [Signature]</i> DATE: <i>Nov 5, 1972</i> PROJECT NO.: <i>100-1000-0-100</i> PROJECT NAME: <i>FA 027-643</i> PROJECT LOCATION: <i>STATION 21+35.0 BM</i>		

STD. DWG. NO. 110



USE TWO-PIECE BAND FOR PIPE OVER 54"
BAND SHALL BE 16 OR 14 GAUGE

TYPE "C"



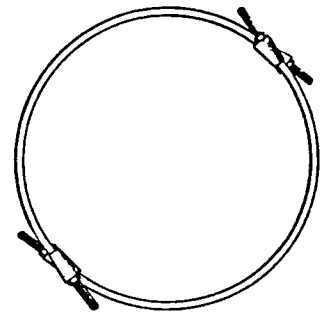
TYPE "A" WATERTIGHT C.M.P. COUPLING

NOTES FOR TYPE "A"

- (1) GASKETS SHALL BE 1/4" MIN. THICKNESS, CLOSED CELL, SYNTHETIC EXPANDED RUBBER, ASTM D-1058-59T, GRADE SBE-43L, WITH ONE 1/2" DIA. HOLE.
- (2) ALL LEAD BOLTS MAY BE SUBSTITUTED BY 1/2" DIA. x 8" LONG CAR-TRIDGE BOLTS, HEX. NUTS WITH ONE WASHER PER BOLT, IN WHICH CASE USE 3/16" x 3/4" SLOTTED HOLES.
- (3) ALL RIVETS USED FOR FASTENING ANGLES SHALL BE FLAT HEAD RIVETS, FREE OF SHARP POINTS OR EDGES IN ACCORDANCE WITH AASHTO M38-80.
- (4) ALL METAL PARTS SHALL BE HOT DIP GALVANIZED AND RECEIVE ONE COAT OF EPOXY PAINT AFTER ASSEMBLY IN ACCORDANCE WITH AASHTO M190-80.

GENERAL NOTES

- (5) GAGE OF CONNECTING BANDS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- (6) DIRT AND GRAVEL SHALL BE KEPT FROM BETWEEN PIPE AND BAND.
- (7) CHAIN HOIST, CHAIN OR CABLE CINCHING SHALL BE ADEQUATE TO PRODUCE A TIGHT JOINT BEFORE NUTS ARE TIGHTENED.
- (8) MINIMUM OVERLAP FOR BANDS SHALL BE AT LEAST 2".
- (9) ONE PIECE BAND SHALL BE USED FOR 18" DIA. AND UNDER. TWO PIECE BANDS SHALL BE USED FOR 18" TO 84" DIA. BANDS SHALL OVERLAP FOR TWO PIECE BANDS. FOR BOTH TYPES, SHALL ALTERNATE AS SHOWN ON DIAGRAM.
- (10) DAMAGE TO COATINGS AND PARTS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER.



TYPE "B" WATERTIGHT C.M.P. COUPLING

NOTES FOR TYPE "B"

- (12) PIPE AND BAND SHALL BE ASPHALT COATED TO A MINIMUM OF 1/16" THICK.
- (13) WATERPROOF, ROTPROOF FELT TAPE 1/8" x 1/4" THICK, AS SPECIFIED BY MANUFACTURER.
- (14) OTHER NON DRYING LIQUID OR SOLID ELASTIC MATERIAL AS SPECIFIED BY THE ENGINEER AND APPLIED OR INSTALLED TO MANUFACTURERS SPECIFICATIONS.

SIZE OF RIB AND SLO TYPE LUG

- 1/4" DIA. FOR 8" - 30" DIA. C.M.P.
- 3/8" DIA. FOR 36" - 60" DIA. C.M.P.
- 1/2" DIA. FOR 66" - 84" DIA. C.M.P.
- 1 PIECE BAND AND HOOPS FOR 8" - 42" DIA. C.M.P.
- 2 PIECE BAND AND HOOPS FOR 48" - 84" DIA. C.M.P.

BAND WIDTH

- 1 1/2" FOR 8" - 30" DIA. INCLUSIVE
- 2" FOR 36" - 60" DIA. INCLUSIVE
- 2 1/2" FOR 66" - 84" DIA. INCLUSIVE

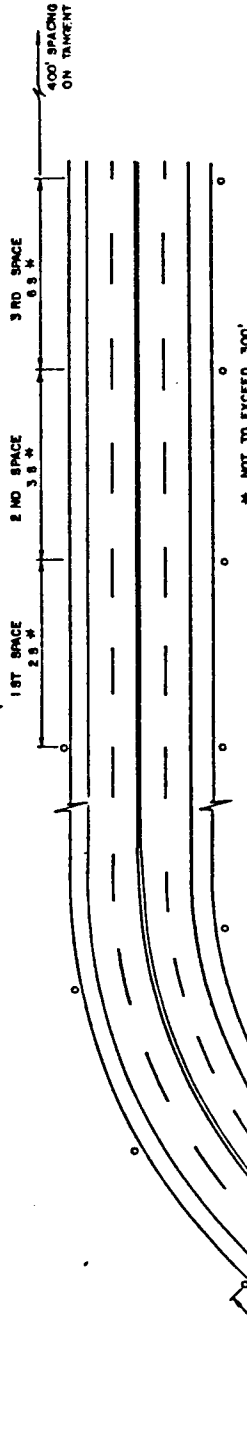
4-6-71 CHANGED GASKET SIZE (48"-84") & NOTE 6
12-1-70 ADDED TYPE "C"

UTAH DEPARTMENT OF HIGHWAYS

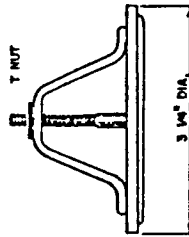
WATERTIGHT CONNECTING BANDS FOR C.M.P.

APPROVED FOR PROJECT: *Blaine Highway* April 12, 1971
DESIGNED BY: *John H. Hutton* April 12, 1971
CHECKED BY: *John H. Hutton* April 12, 1971
DATE: 4-6-71

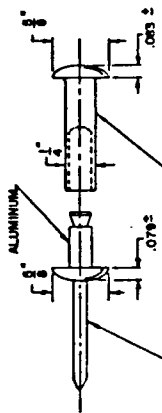
STD. DWG. NO. 605-3



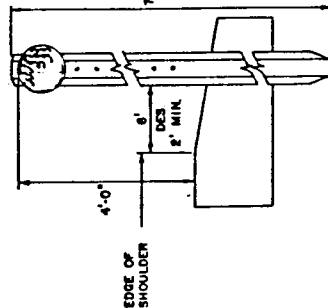
3/16" x 2 1/2" STAINLESS
STEEL BOLT WITH ONE-WAY
SLUT AND CADMIUM PLATED
VARIABLE RESISTANT NUT
AFTER INSTALLATION
EXPANSION RIVETS MAY BE
USED AS A SUBSTITUTE FOR
BOLTS - SEE DETAIL.



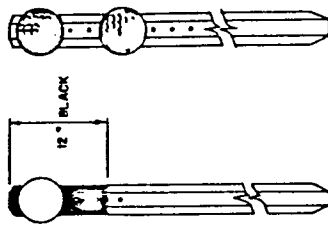
REFLECTOR ATTACHMENT
POST WITH FLANGED CHANNEL



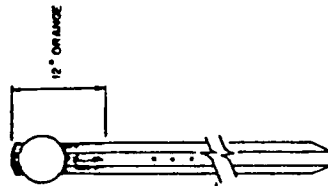
EXPANSION RIVET DETAILS



TYPE I CULVERT MARKER
SINGLE UNIT
(OF COLOR SPECIFIED)

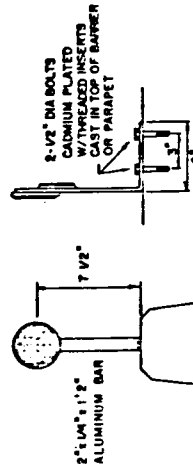


TYPE II CULVERT MARKER
DOUBLE UNIT
(OF COLOR SPECIFIED)



NO PASSING
SEE NOTE 8

A MINIMUM OF 18
3/8" DIA HOLES ON 1"
CENTERS BEGINNING 1"
FROM TOP MAY BE FULL
LENGTH OF POST.



BRIDGE PARAPET OR
MEDIAN BARRIER ATTACHMENT

DEGREE OF CURVE	SPACING ON CURVE (S)	SPACING IN ADV. & BEYOND CURVE (S)	14' SPACE	21' SPACE	28' SPACE
0°-30'	240	300	300	300	300
30°-45'	220	300	300	300	300
45°-60'	200	300	300	300	300
60°-75'	180	300	300	300	300
75°-90'	160	300	300	300	300
90°-105'	140	300	300	300	300
105°-120'	120	300	300	300	300
120°-135'	100	300	300	300	300
135°-150'	80	300	300	300	300
150°-165'	60	300	300	300	300
165°-180°	40	300	300	300	300
180°-195°	20	300	300	300	300
195°-210°	10	300	300	300	300
210°-225°	5	300	300	300	300
225°-240°	0	300	300	300	300

DEGREES NOT SHOWN MAY BE INTERPOLATED
FROM TABLE

1. THE COLOR OF DELINEATORS SHALL IN ALL CASES, CONFORM TO THE COLOR OF EDGE LINES ESTABLISHED IN THE 1978 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SECTION 3B-4.
2. SPACING MAY BE REDUCED TO 800' IN HEAVY SNOW AREAS OR FOR SHORT TANGENT SECTIONS IN PREDOMINANTLY CURVILINEAR ALIGNMENT.
3. DELINEATOR POSTS SHALL BE SET 2' TO 8' FROM PAVEMENT EDGE AND SHALL MAINTAIN A STRAIGHT LINE ON TANGENT SECTIONS.
4. SPACING ON HORIZONTAL CURVES SHALL BE ACCORDING TO THE TABLE.
5. DELINEATORS SHALL BE LOCATED AT CULVERTS. THE TOP 6" OF THE POST SHALL BE PAINTED BLACK. THE CULVERT MARKER REFLECTOR BUTTON SHALL BE OF THE SAME COLOR AS THE DELINEATORS WITH WHICH IT IS ALIGNED.
6. WHERE DELINEATORS ARE MOUNTED ON BRIDGE RAIL OTHER THAN ALUMINUM THE MOUNTING BRACKET SHALL BE OF IDENTICAL METAL AS THE RAIL AND TREATED FOR CORROSION RESISTANCE. THE CENTER OF THE FIRST DELINEATOR SHALL BE 2 1/2" ABOVE THE RAIL.
7. FOR FREEWAY RAMP INSTALLATION SEE STANDARD DRAWING 728-1.
8. INSTALL AT BEGINNING AND END OF NO PASSING ZONE TO ASSIST CREWS IN ESTABLISHING PAINT LIMITS.

10.14.80 ADDED NO PASSING DELINEATOR
5.8.80 POST SPACING (CHART) REDRAWN

UTAH DEPARTMENT
OF TRANSPORTATION

DELINEATION

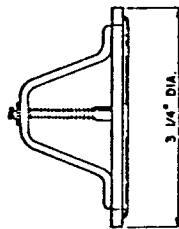
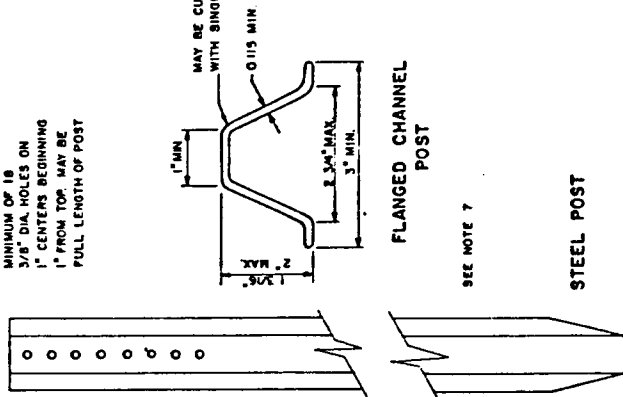
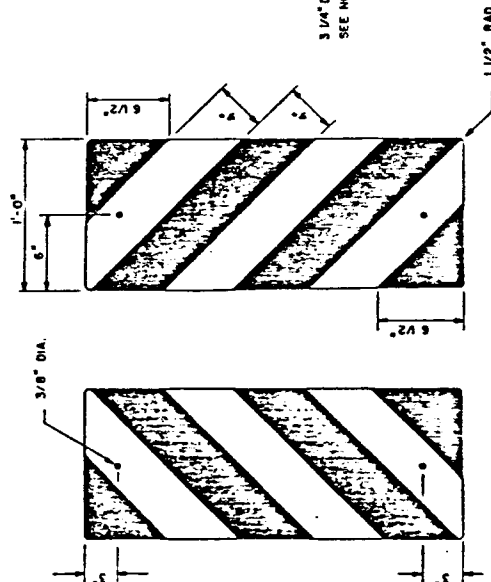
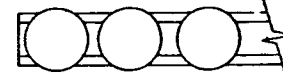
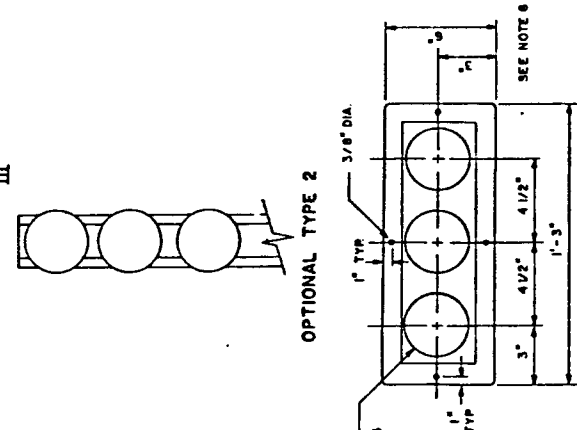
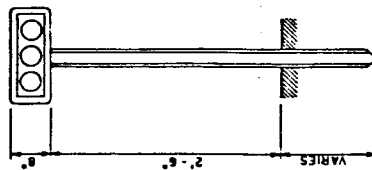
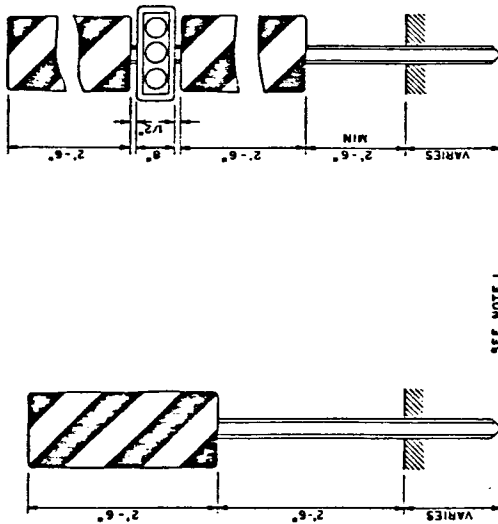
OTHER THAN INTERSTATE

DATE: JAN 3, 1971
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

STD. DWG. NO. 726-2

NOTES

1. THE OBJECT MARKER TYPE 3 IS USED TO MARK THE ENDS OF OBSTRUCTIONS SUCH AS NARROW BRIDGES. THE MARKER IS PLACED ON EACH SIDE OF BOTH ENDS OF BRIDGES ON TWO-WAY ROADWAYS, AND ON EACH SIDE OF THE APPROACH END OF BRIDGES ON ONE-WAY ROADWAYS. THE MARKER IS MADE OF SILVER-WHITE HIGH INTENSITY REFLECTIVE SHEETING AND BLACK NON-REFLECTIVE PAINT.
2. AN OBJECT PANEL SHALL BE USED TO MARK AN OBSTRUCTION MORE THAN 3' WIDE (DETAIL I)
3. AN OBJECT MARKER TYPE 2 SHALL BE USED TO MARK AN OBSTRUCTION LESS THAN 3' WIDE (DETAIL III).
4. ALL DECLINATION REFLECTORS AND OBJECT MARKERS SHALL BE ATTACHED TO POST WITH VANDAL RESISTANT FASTENERS
5. THE OBJECT MARKER SHALL HAVE 3 AMBER PRISMATIC REFLECTORS MOUNTED VERTICALLY. THE PLATE, IF MOUNTED HORIZONTALLY, SHALL HAVE A YELLOW NON-REFLECTIVE BACKGROUND.
6. THE OBJECT MARKER IS USED TO MARK OBSTRUCTIONS THAT ARE LOCATED WITHIN THE ROADWAY SUCH AS OFF-RAMP BORES AND CHANNELIZATION ISLANDS (DETAIL II)

REFLECTOR ATTACHMENT
IV

12-8-77 ADDED TO POST NOTES RE: SHAPE, MOLES
12-7-76 CHANGED NOTES & OPTIONAL TYPE 2

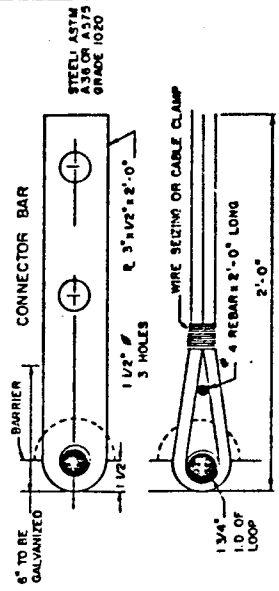
**UTAH DEPARTMENT
OF TRANSPORTATION**

[illegible]

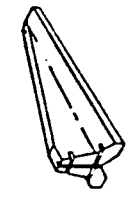
OBJECT MARKERS

RECEIVED FOR DEPOSIT
 H. L. W. N. M. S. APRIL 10 1934
 NATIONAL RESEARCH COUNCIL
 ASSISTANT SECRETARY
 APRIL 10 1934
 STD. DWO. NO. 726-3

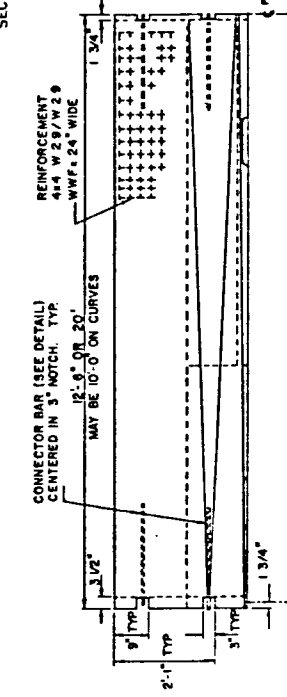
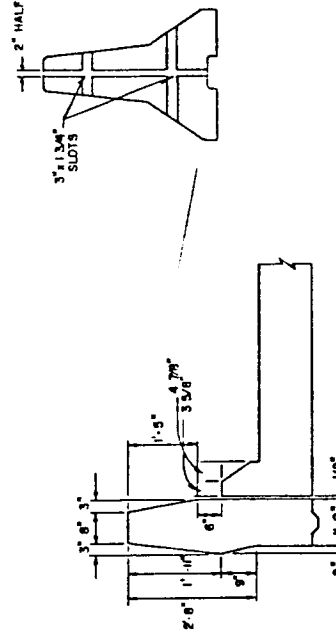
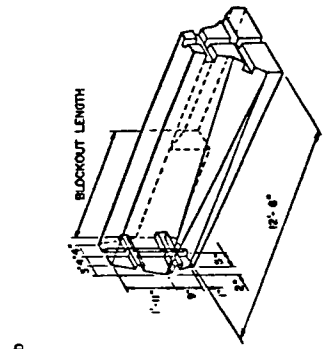
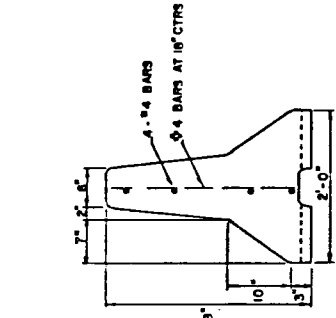
726-3



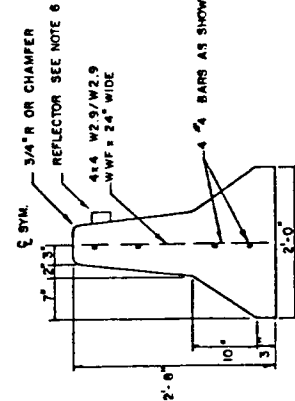
ALTERNATE WIRE ROPE LOOP
1/2" DIA. 7 STRAND COMMON GRADE ZINC COATED STEEL WIRE
STRAND ASTM A-475 TYPE 1 COATING



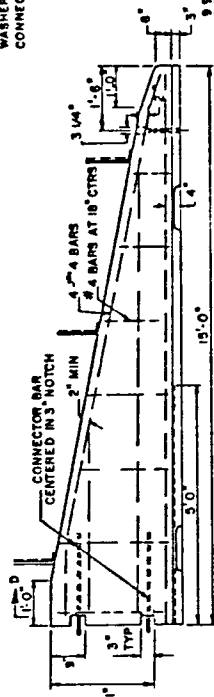
- NOTES
1. TO FACILITATE PIN REMOVAL, THREAD HEX COUPLING NUT APPROXIMATELY HALF W/ ON TO PIN AND TACK WELD. FILL NUT WITH GREASE TO EXCLUDE ICE OR OTHER CONTAMINATES.
 2. THE PERIMETER OF ALL SECTIONS AND THE TOP EDGE OF ALL SECTIONS SHALL BE CHAMFERED 3/4".
 3. 1/8" DRAFT ON ALL NOTCHES TO FACILITATE FORM REMOVAL.
 4. PRECAST CONCRETE BARRIERS SHALL BE USED ON BITUMINOUS SURFACE ROADS.
 5. CONNECTION PIN, PLATE, WASHER AND NUT SHALL BE GALVANIZED.
 6. CONNECTION SHALL BE 30" ON 5" CURVES OR GREATER, AND 100" ON TANGENT AND CURVES LESS THAN 5'.



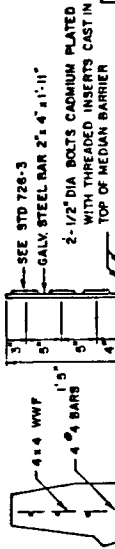
TRANSITION DETAILS SHOWN ARE FOR ATTACHMENT TO THE SIDE OF THE STRUCTURE SHOWN IN THE ELEVATION VIEW. (FOR OTHER SIDE) TRANSITION SECTION IS REQUIRED FOR THE OTHER SIDE OF THE STRUCTURE.



TERMINAL PLAN



TERMINAL ELEVATION



PARAPET TRANSITION END ELEVATION

PLAN

UTAH DEPARTMENT OF TRANSPORTATION

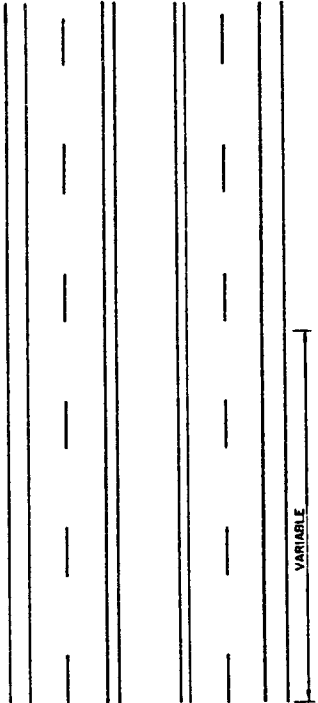
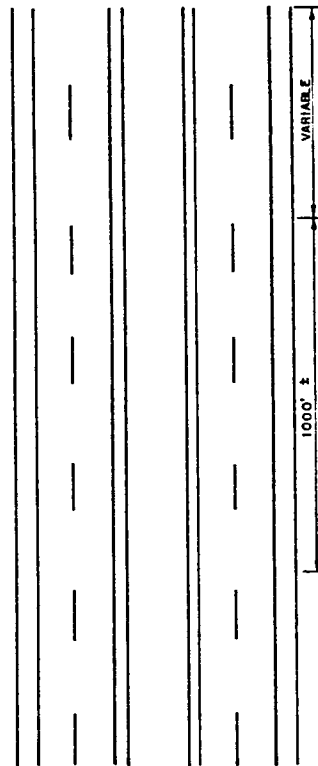
PRECAST CONCRETE BARRIER TRANSITION & TERMINAL SECTIONS

SUPERSEDES	REVISIONS	DATE	BY	APP
	1	9.9.80	J.P.P.	
	2	7.7.81		
	3	5.20.82		

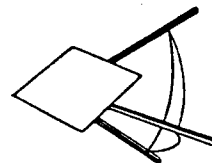
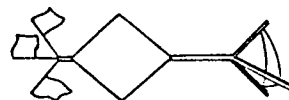
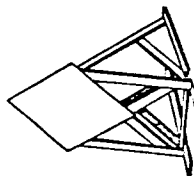
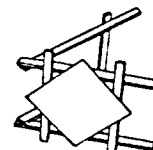
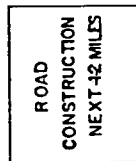
APPROVED: *[Signature]* JULY 9, 1982

DESIGNED: *[Signature]* JULY 9, 1982

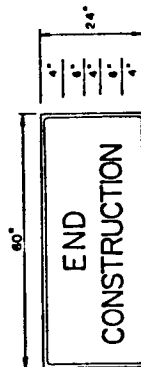
STD. DWG. NO. 735-1B



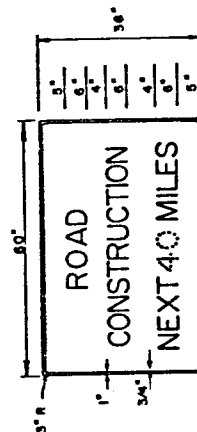
CONSTRUCTION
WORK AREA



PORTABLE AND TEMPORARY MOUNTINGS



820-2
8" SERIES C
BLACK ON REFLECTORIZED ORANGE



820-1
6" AND 3" SERIES C
BLACK ON REFLECTORIZED ORANGE

END
CONSTRUCTION

VARIABLE

- ALL SIGNS PLACED IN THE NORMAL TRAVELED WAY SHALL BE CONSTRUCTED OF WOOD, PLASTIC OR FABRIC. METAL SIGNS SHALL NOT BE ALLOWED ON PORTABLE SUPPORTS.
- ALL CONSTRUCTION PROJECTS THROUGH WHICH TRAFFIC MUST PASS, SHALL HAVE A BLACK ON REFLECTORIZED ORANGE 820-1 "ROAD CONSTRUCTION" ADVANCE NOTIFICATION SIGN MOUNTED ON POSTS. THIS SIGN SHALL ALSO BE SUPPLEMENTED BY A BLACK ON ORANGE "ROAD CONSTRUCTION AHEAD" SIGN ON POSTS. THE END OF "PASS THROUGH" CONSTRUCTION AREAS SHALL BE DESIGNATED BY THE BLACK ON REFLECTORIZED ORANGE (1) 820-2 "END CONSTRUCTION" SIGN. ALL SIGNS SHALL BE MAINTAINED IN A CLEAN LEGIBLE PROPERLY MOUNTED INTACT CONDITION.
- SPECIFIC REROUTING OR CHANNELIZING OF TRAFFIC THROUGH THE CONSTRUCTION WORK AREA SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR AS DIRECTED BY THE ENGINEER.
- ALL TRAFFIC CONTROL DEVICES USED TO REGULATE, CONTROL, GUIDE OR WARN TRAFFIC WHILE PASSING THROUGH THE CONSTRUCTION AREAS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL TEMPORARY (PORTABLE MOUNTINGS) FOR CONSTRUCTION SIGNS SHALL HAVE SUFFICIENT BALLAST TO MAINTAIN THE INTENDED POSITION REGARDLESS OF CLIMATIC CONDITIONS OR WIND LOADS FROM PASSING TRAFFIC.
- PORTABLE AND TEMPORARY SIGNS SHALL BE MOUNTED A MINIMUM OF 15' ABOVE THE ROADWAY TO BOTTOM OF SIGNS. SIGNS SHALL BE PLACED AT RIGHT ANGLES TO AND FACING THE LINE OF TRAFFIC THEY SERVE.
- SEE STD. DWG. 745-80 FOR TEMPORARY INSTALLATION AND NO. OF POSTS REQUIRED.
- REFLECTORIZED ORANGE SHALL CONFORM TO STANDARD SPECIFICATIONS.
- FABRIC SIGNS SHALL BE USED FOR DAYLIGHT OPERATIONS ONLY, IF WORK CONTINUES INTO NIGHT REFLECTORIZED SIGNS SHALL BE USED.

5.2.82 DELETED "THANK YOU" SIGN REDRAWN

UTAH DEPARTMENT
OF TRANSPORTATION

CONSTRUCTION
NOTIFICATION
SIGNS

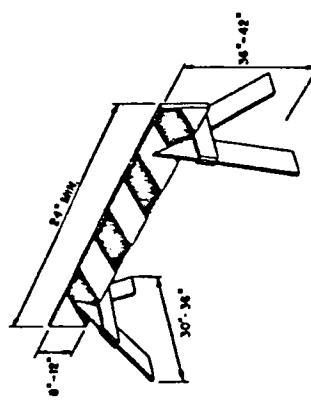
SUPERSEDES	REVISIONS	Date	App
		8-2-82	

REVISIONS FOR PROJECT

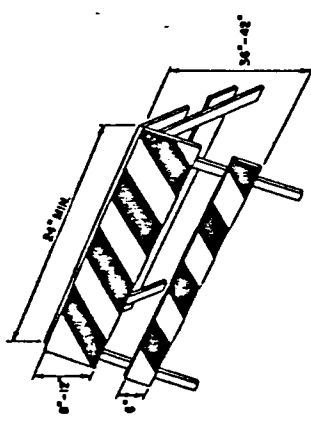
5.2.82 Deleted August 1982

5.2.82 Deleted August 1982

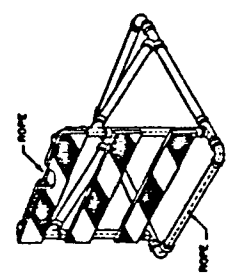
STD. DWG. NO. 745-1B



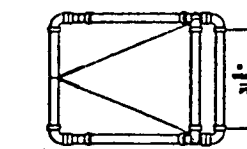
TYPE I



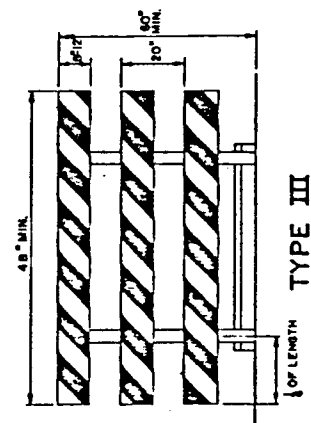
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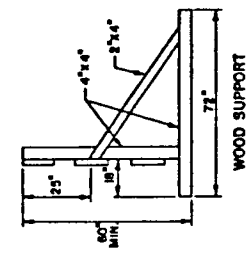
TYPE III ALTERNATE (PVC)



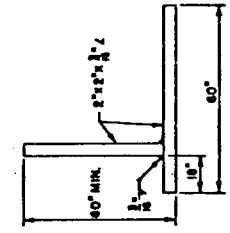
- MATERIALS**
- 50'-3" PVC CONDUIT
 - 8'-3" PVC 90° ELBOWS
 - 2'-3" PVC TEES
 - 4'-3" PVC WYES
 - 3'-9" 45° 1.053" ANGLE
 - ALUMINUM FACE PANELS
 - 12 - 1" NO. 14 PAN HEAD METAL BOLTS
 - 15' - 3/16" NO. 6 SOLID BRUISED NYLON ROPE
 - 2 - 5/8" x 11" NO. 8 SPRING



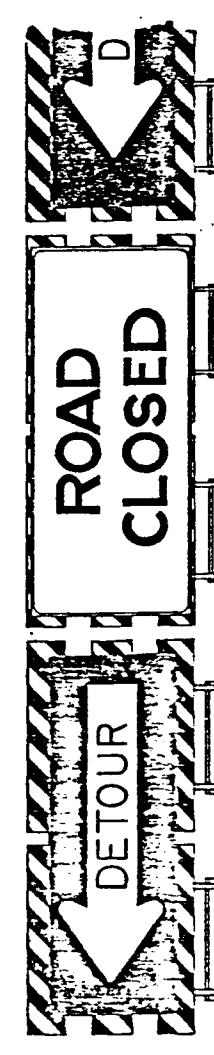
TYPE III



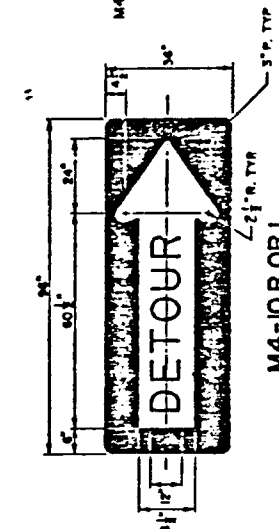
WOOD SUPPORT



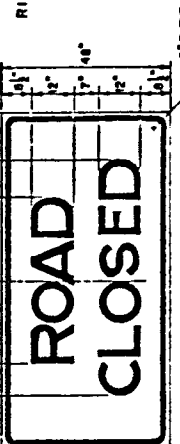
STEEL SUPPORT



R11-2



M4-10R OR L



R11-2: SERIES "D" LEGEND

BLACK LEGEND AND BORDER ON REFLECTORIZED WHITE BACKGROUND
ALTERNATE SIGN USE R11-4.

7-8 60 ENLARGED VIEW OF SIGN (LOWER LEFT)
9-11 75 TYPE III "A" MIN-6" STRIPE (NOTE 1) (NOTE 9)
4-3 75 ADDED NOTE 2
8-10 75 ENLARGED VIEW OF SIGN (LOWER LEFT)
1-4-77 REVISION ADDED PVC BARRICADE

NOTES:

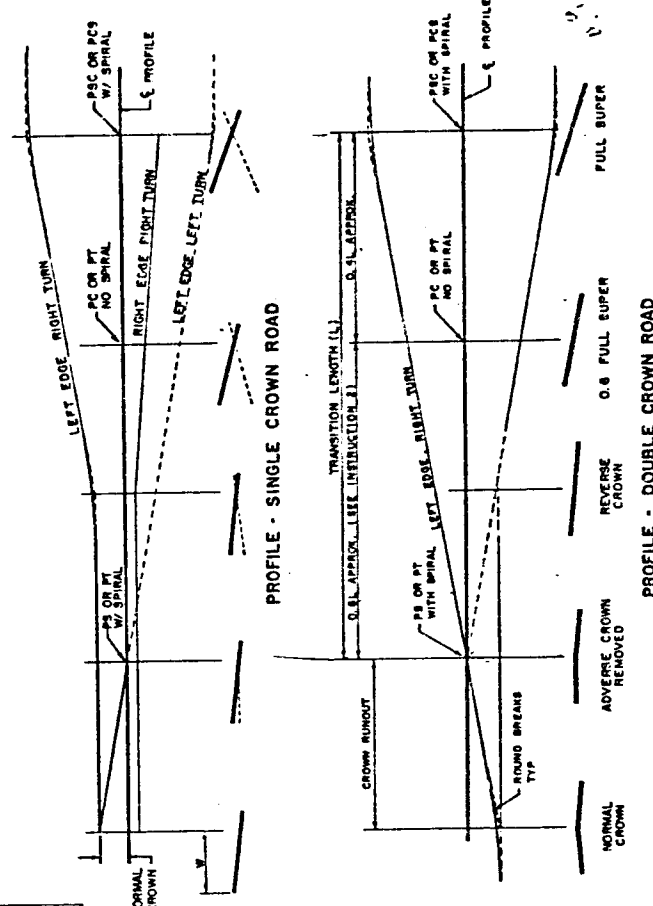
- TYPE I, II & III BARRICADES. EACH BARRICADE RAIL SHALL BE MARKED WITH ALTERNATE REFLECTORIZED ORANGE AND WHITE STRIPES 6 INCHES IN WIDTH AND BLANKING DOWNWARD AT AN ANGLE OF 45°. ORANGE FLAGS MAY BE USED ON BARRICADES DURING DAYLIGHT HOURS. SEE NOTE 9.
- THE DETOUR BARRICADES SHALL CONSIST OF A R11-2 OR -4 ROAD CLOSED (96"x48"), TWO 96"x36" M4-10R OR M4-10L SIGNS POINTING IN THE DIRECTION OF TRAFFIC TO TURN, AND AS MANY TYPE III BARRICADES AS ARE NEEDED TO BARRICADE THE ROADWAY. ALL SIGNS AND BARRICADES SHALL BE REFLECTORIZED. THE DETOUR ROUTE SHALL BE COMPLETELY SIGNED WITH NECESSARY GUIDE AND WARNING SIGNS.
- TYPE III BARRICADES MAY BE MOUNTED ON POSTS OR PORTABLE SUPPORTS AS DIRECTED BY THE ENGINEER. ALL SUPPORTS SHALL BE PROVIDED WITH SUFFICIENT BALLAST TO MAINTAIN BARRICADE IN INTENDED POSITION REGARDLESS OF CLIMATIC CONDITIONS OR WIND LOADS FROM PASSING TRAFFIC.
- STRIPES SHALL BLANK DOWNWARD IN THE DIRECTION OF THE DETOUR WITH THE LETTER L OR R ADDED TO THE NUMBER.
- TRAFFIC CONTROL DEVICES: ALL SIGNS, BARRICADES & OTHER DEVICES USED TO REGULATE, CONTROL, GUIDE OR WARN TRAFFIC SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.
- TYPE III ALTERNATE PVC BARRICADE. PVC CONDUIT SHALL BE TIED TOGETHER WITH ROPE THREADED INTO PVC INTERIOR, AS INDICATED BY DOTTED LINE. USE 6 3/16" DIA. SOLID BRAIDED NYLON OR EQUIVALENT.
- REFLECTORIZED ORANGE AND WHITE SHALL CONFORM TO STANDARD SPECIFICATIONS.
- BALLAST SHALL NOT BE HIGHER THAN 12" ABOVE THE GROUND.
- FOR RAILS LESS THAN 3 FT. LONG USE 4" WIDE STRIPES.

UTAH DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION SIGNING BARRICADES	
REVISIONS	DATE
1-4-77	8-15-79
2-1-79	4-3-79
3-1-79	5-1-79
4-1-79	7-1-80
APPROVED: <i>[Signature]</i>	
UNIFORMITY: <i>[Signature]</i>	
STD. DWG. NO. 745-1C	

SUPERELEVATION MINIMUM TRANSITION LENGTH

RADIUS ON INNER EDGE OF PAVEMENT	PAVEMENT WIDENING			
	PAVEMENT WIDENING 1' LANE 1-WAY TURNING ROWY 14' PAVEMENT	PAVEMENT WIDENING 2' LANE 2-WAY TURNING ROWY 24' PAVEMENT		
30	6	11		
75	4	8		
100	3	7		
150	2	6		
200	2	5		
300	1	4		
400	1	3		
500	1	2		
TANGENT	0	0		

CURVE WIDENING SHALL BE APPLIED TO THE INSIDE EDGE OF THE PAVEMENT WITH A SMOOTH TRANSITION EXTENDING THE SAME DISTANCE AS SUPERELEVATION RUNOFF. NO WIDENING REQUIRED FOR 12' THROUGH TRAFFIC LANES WITHIN THE PERMISSIBLE LIMITS OF CURVATURE.



- V - DESIGN SPEED.
- D - DEGREE OF CURVATURE.
- R - RADIUS OF CURVE FEET.
- E - SUPERELEVATION FOOT PER FOOT.
- W - CROSS SECTIONAL DISTANCE IN FEET FROM AXIS OF ROTATION (NORMALLY THE CONTROL LINE) TO THE OUTER EDGE OF THE SHOULDER LINE. THE GREATER SIZE AND ROUNDED UP TO A MULTIPLE OF 12.
- L - TRANSITION LENGTH
- NC - NORMAL CROWN
- RC - REMOVE ADEQUATE CROWN AND SUPERELEVATION AT NORMAL CROWN.

INSTRUCTIONS

1. USE SUPERELEVATION WITH CURVES THAT FALL BELOW THE HEAVY LINE IN TABLE. DO NOT USE SPIRALS ON LOW VOLUME ROADS, FRONTAGE ROADS OR RAMPS REGARDLESS OF SUPERELEVATION. IF SPIRALS ARE USED, THE SPIRAL LENGTH SHALL BE THE TRANSITION LENGTH.
2. ADJUST THE 0.6L AND 0.4L DIMENSIONS (SEE PROFILE SKETCH) SO THAT THE BEGIN AND END POINTS OF THE TRANSITION FALL ON EVEN QUANTITIES OF MULTIPLE OF CROWN THICKNESS. (SEE NOTE 1.)
3. WHERE W IS THE VALUE DEFINED IN THE LEGEND.
4. CHECK FOR DRAINAGE IN THE ROADWAY WHERE THE CROSS SLOPE IS ZERO AND IN SIDE DITCHES.
5. THE LAST LINE OF EACH SECTION OF THE TABLE SHOWS MAXIMUM ALLOWABLE CURVATURE FOR THE GIVEN SPEED.
6. PLACE THE FOLLOWING INFORMATION CONSTRUCTION PLANS:
 - RATE OF SUPERELEVATION
 - BEGIN AND END OF CROWN ROUNDT
 - BEGIN AND END OF TRANSITION IF SPIRALS ARE NOT USED.

[illegible]

This page is a reference page used to track documents internally for the Division of Oil, Gas and Mining

Mine Permit Number M0470007 Mine Name Vernal Phosphate
Operator SF Phosphate Co Date 11-2-1989
TO _____ FROM _____

☐ CONFIDENTIAL ☐ BOND CLOSURE ☐ LARGE MAPS ☒ EXPANDABLE
☐ MULTIPUL DOCUMENT TRACKING SHEET ☐ NEW APPROVED NOI
☐ AMENDMENT ☐ OTHER _____

Description

YEAR-Record Number

☐ NOI ☒ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

Utah Construction Program
muti-Plate and Detour Road

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ NOI ☐ Incoming ☐ Outgoing ☐ Internal ☐ Superceded

☐ TEXT/ 8 1/2 X 11 MAP PAGES ☐ 11 X 17 MAPS ☐ LARGE MAP

COMMENTS: _____

CC: _____